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NOTICE OF ALLOWANCE AND FEE(S) DUE

25259 7590 10/29/2010

RSW IP Law
IBM CORPORATION
3039 CORNWALLIS RD.
DEPT. T81 / B503, PO BOX 12195
RESEARCH TRIANGLE PARK, NC 27709

EXAMINER

AUGUSTINE, NICHOLAS

ART UNIT

PAPER NUMBER

2179

DATE MAILED: 10/29/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/727,275

12/03/2003

Gabriel Aaron Cohen

RSW920030245US1

5980

TITLE OF INVENTION: SELF-CONFIGURING COMPONENT FOR RECOGNIZING AND TRANSFORMING HOST DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/31/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25259 7590 10/29/2010

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/727,275 12/03/2003 Gabriel Aaron Cohen RSW920030245US1 5980

TITLE OF INVENTION: SELF-CONFIGURING COMPONENT FOR RECOGNIZING AND TRANSFORMING HOST DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional NO \$1510 \$300 \$0 \$1810 01/31/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
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AUGUSTINE, NICHOLAS 2179 715-746000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 948 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 948 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/727,275	COHEN ET AL.	
	Examiner	Art Unit	
	NICHOLAS AUGUSTINE	2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/12/2010.
2. ☒ The allowed claim(s) is/are 1,3-8,11-15 and 17-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other ____. |
|--|---|

DETAILED ACTION

EXAMINER'S AMENDMENT

1. This action is responsive to the following communication: 08/12/2010
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jerry Herndon (Reg. No. 27,901) on 10/20/2010.

The application has been amended as follows:

1. (presently amended) A ~~computer-readable program~~ media ~~medium~~ having stored computer program code that when executed by a computer causes a computer system to recognize a character-based user interface having a plurality of host component types and to transform the character-based user interface to a web enabled user interface, the medium having code to control the computer, the medium comprising:
code for scanning the character-based user interface ~~for~~ by a plurality of agents; code in each agent for determining the existence of a different host component type unique to the agent;

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code for defining a match region for each host component type found to exist by an agent in the character-based user interface;

code for determining whether two or more match regions overlap;

code for resolving a conflict between the two or more match regions that overlap; ~~and~~

code for rendering match regions associated with each agent to compose the web enabled user interface

and code for rendering each match region as a widget, the aggregated widgets composing a formatted output page.

Claim 2 (canceled).

3. (presently amended) The ~~computer-readable-program~~ media ~~medium~~ of claim 1 wherein the resolving code is executed before the rendering code, and further comprises:

code for resolving a conflict between two or more match regions which overlap based on a policy to determine which agent associated with a match region controls the overlap region.

4. (presently amended) The ~~computer-readable-program~~ media ~~medium~~ of claim 3 wherein the resolving code further comprises:

code for assigning a predetermined priority to each agent;

code for comparing the predetermined priority to resolve a conflict between two or more

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match regions; and

code for selecting the agent with the highest predetermined priority to control the overlapping region.

5. (presently amended) The ~~computer-readable program~~ media ~~medium~~ of claim 3 wherein the resolving code further comprises:

code for comparing the size of the conflicting regions which overlap; and

code for selecting the agent having the smaller size region to control the overlapped region.

6. (presently amended) The ~~computer-readable program~~ media ~~medium~~ of claim 3 wherein the resolving code further comprises:

code for assigning a dynamic priority to each conflicting region having a common overlapping region, the dynamic priority based on the projected amount of time expended to render each conflicting region; and

code for selecting the agent controlling the conflicting region having the highest priority to retain control over the overlapping region.

7. (presently amended) The ~~computer-readable program~~ media ~~medium~~ of claim 4

further comprising code for controlling the agents detecting overlapping match regions to negotiate whether to relinquish control of each agent's overlap region.

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8. (presently amended) A computer system for recognizing a character-based user interface having a plurality of host component types and transforming the character-based user interface to a web enabled user interface, the computer system comprising: a memory comprising a plurality of agent objects to scan the character-based user interface, each agent object determining the existence of a different host component type from the other agents, each agent object defining a match region for each host component type found to exist in the character-based user interface, an agent manager for determining whether two or more match regions overlap and for resolving the overlap, each agent object rendering ~~its associated~~ its associated match region to compose the web enabled user interface; each agent is configured to render each match region as a widget, the aggregated widgets composing a formatted output page; and a processor for running the plurality of agent objects.

9. (canceled).

10. (canceled)

11. (presently amended) The computer system of claim ~~40~~ 8 wherein the system ~~resolves~~ is configured to resolve a conflict between two or more overlapping match regions based on a policy to determine which agent associated with one match region

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controls the overlap region, the processor configured to execute ~~run~~ the policy.

12. (presently amended) The computer system of claim 11 wherein the policy executed by the processor comprises:

assigning a predetermined priority to each agent; comparing the predetermined priority of the two or more ~~conflicting agents~~ detecting overlapping match regions; and selecting the agent with the highest predetermined priority to control the overlapping region.

15. (presently amended) A method for recognizing a character-based user interface having a plurality of host component types and transforming the character-based user interface to a web enabled user interface, the method comprising:

scanning the character-based user interface ~~for~~ by a plurality of agents; determining which host component types exist in the character-based user interface, each agent determining the existence of a different host component type from the other agents; defining a match region for each host component type found to exist by an agent in the character-based user interface; determining whether two or more match regions overlap; upon a determination that two or more match regions overlap, resolving a conflict between said two or more match regions that overlap; ~~and~~ rendering match regions associated with each agent to compose the web enabled user interface ; and rendering each match region as a widget, the aggregated widgets composing a formatted output page.

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16. (canceled).

17. (presently amended) The method of claim 15 ~~further comprising a step before the rendering step, the step comprising~~ wherein resolving a conflict between said two or more match regions that overlap further comprises:

resolving a conflict between two or more match regions ~~which overlap~~ based on a policy to determine which agent associated with a match region controls the overlap region.

18. (presently amended) The method of claim 17 wherein the policy comprises ~~the steps of:~~

assigning a predetermined priority to each agent; comparing the predetermined priority of the two or more ~~conflicting agents~~ detecting overlapping match regions; and selecting the agent with the highest predetermined priority to control the overlapping region.

19. (presently amended) The method of claim 17 wherein the policy comprises ~~the steps of:~~ comparing the size of the conflicting regions which overlap; and selecting the agent having the smaller size region to control the overlapped region.

20. (presently amended) The method of claim 17 wherein the policy comprises ~~the steps of:~~

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assigning a dynamic priority to each conflicting region having a common overlapping region, the dynamic priority based on the projected amount of time expended to render each conflicting region; and selecting the agent controlling the conflicting region having the highest priority to retain control over the overlapping region.

21. (presently amended) The method of claim 18 wherein the ~~conflicting agents~~ detecting overlapping match regions negotiate whether to relinquish control of ~~at least the each agent's~~ overlap region.

Allowable Subject Matter

3. Claims 1, 3-8, 11-15 and 17-21 are allowed.

The following is an examiner's statement of reasons for allowance: Independent claims 1, 8 and 15, when considered as a whole, are allowable over the prior art of record. Specifically, the prior art of Mutschler teaches the limitation: "a system that enables a client user to access a character based interface by means of conversion into a web based version which is accomplished with screen control language, host reply definition file and HTML files". But the claims recite a different combination of limitation: "an agent manager for determining whether two or more match regions overlap and for resolving the overlap, each agent object rendering its associated match region to compose the web enabled user interface; each agent is configured to render each match region as a widget, the aggregated widgets composing a formatted output page..." (herein referred to as limitation A), that is not suggested or shown by Mutschler.

The prior art of Galvin teaches another combination, “scanning applications for non-web environment code which can then be translated into web-enabled code for execution in a different environment”, but does not suggest the limitation A.

Further the combination of Mutschler and Galvin teaches “a system that enables a client user to access a character based interface by means of conversion into a web based version which is accomplished with screen control language, host reply definition file and HTML files further the system allows for scanning applications for non-web environment code which can then be translated into web-enabled code for execution in a different environment”, that is not suggested or shown in combination or alone by Mutschler or Galvin.

The dependent claims further add limitations to the allowable subject matter of the corresponding independent claims; thus are also allowable. Therefore the claims are allowed over the art because the claims differ in scope that is not seen or suggested by the prior art..

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Inquires

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Augustine whose telephone number is 571-

Art Unit: 2179

270-1056 and fax is 571-270-2056. The examiner can normally be reached on Monday - Friday: 9:30am- 5:00pm Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicholas Augustine/
Examiner
Art Unit 2179
October 21, 2010

/Weilun Lo/
Supervisory Patent Examiner, Art Unit 2179